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FAX COVER SHEET

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FROM:

Ellen McEntee

Morrison Knudsen Corporation

(303)948-4674

TO:

X Bonnie Lavelle, USEPA, Region 8

(303) 312-6897

DATE:

___12/2/99___

MESSAGE:

CONF. CALL ON 12/6/99

- ELLEN WILL REVERE HER LETTER AND
SEND IT TO ME. REVISION WILL
MORE CLESELY EXPLAN PATRONICE FOR
OHOICE OF 0.05 fm As MAL AND
0.15 pm Foor MCL

- 541/145 war Be Anny 200 Signing

- May choose Some Saraves Fall Hypanoe Dicestra

Pal - 1

NIGT - NOMINGL VALUE < . D 0.1 pm But MENSULED VALUE > 0.1 AND WOULD MOT BE I GENAUTELED `

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10822 WEST TOLLER DRIVE LITTLETON, COLORADO U.S.A. 80127 PHONE: (303) 948-4000/FAX: (303) 948-4010

December 2, 1999

Ms. Bonnie Lavelle USEPA, Region 8 999 18th Street, Suite 500 Denver, CO 80202-2466

RE: Vegetable MDL Study

Vasquez Boulevard/Interstate 70 (VB/I70) Site

Work Assignment 004-RICO-089R

Dear Bonnie,

Enclosed are results of the second MDL study conducted by Columbia Analytical Services (CAS) on NIST SRM 1570 (spinach leaves). This MDL study incorporated the use of a more aggressive digestion along with the 1:2 sample dilution, as described in my e-mail dated 12/1/99. Note that the SRM certified value for arsenic is 0.068 +/- 0.012 ppm and the uncertified value for lead is 0.2 ppm. The arsenic results indicate that reported values between 0.09 ppm (lab calculated PQL) and 0.15 ppm (recommended minimum PQL) should be considered estimated. Therefore, we recommend using 0.05 ppm as the MDL for both arsenic and lead.

Upon receiving your approval to proceed, I will instruct the laboratory to start analysis of the vegetable samples as early as tomorrow, 12/3/99. If you have any questions, please call me at (303) 948-4674.

Sincerely,

Ellen McEntee Project Chemist

Enc.

cc: Marta Valentine Kevin Williamson

2 Welt

\$ 150 - 200 FOR HYDRIDE

Anarysis

Would Have to BE ADDED TO THE

COST OF ANArysis FOR LEAD

Would Have the FREEZE

DRIED Surpre Available For

Avother Method

Columbia Analytical Services Method Detection Limit Study

Analytical Method:

200.8

Extr./Dig. Method:

PSEP Tissue

Matrix:

Plant SRM

Units: Analyst(s): mg/Kg

Instrument:

Jasper PQ-T

Sample ID: Date Analyzed: MDL-1 MDL-2 MDL-3 MDL-4 MDL-5 MDL-6 MDL-7 11/22/99 11/22/99 11/22/99 11/22/99 11/22/99 11/22/99

Analyte:	•	;	Result 1	Result 2	Result 3	Result 4	Result 5	Result 6	Result 7	Mean	Std Dev.	T-Value		Reported MDL	% RSD
Arsenic Lead		•	0.110 0.185	0.134 0.198	0.123 0.169	.0.115 0.175	0.120 0.189	0.129 0.165	0.121 0.191	0.122 0.182	0.008 0.012	3.143 3.143	0.026 0.038	0.03 0.04	7% 7%